


```

Db 97 WIFLVLLGL-----LMALV-----SWAMDYAIACVLOA-----Q 125
QY 162 QMKTWAEILIGQAEPPGSI-MNYIMYIFMALSFAPLAVSLVKVAPYACSGIPEIKTI 220
126 QM-----MSRGLNINILLOIYAWTYIPYVLTTSAGTQIILAPAVSGIPEIKTI 176
QY 221 LSGFIIRGLGKWTLMITITLVLAVASGLSGKEGPIVHVACCGNI---FSYLFPKYS 277
Db 177 LRGVLLKREYLLKTFVAVIGLTCALGSGMPLGKEGPFVHIASMCALLSKFLSLFGGIY 236
QY 278 TNEAKKREVLASAAGSVAFAPAGIGVLSLEEVSYFPPLKTRSPFALVAAPLVR 337
Db 227 ENESNTEMLAACAAGVCGCCFAPIGVLSIEVTSFFAVRNWRKFPAATESAFIFR 296
QY 338 SI---NPGNSRLVLFVEYEHY--PWYLFELFPFLLGVFGGLGAPFIRAN--IACR 390
Db 297 VLAVNRRDEETITLFTKRFRLDPFDLOELPAFAVIGIASGFGALFVYLNKIVQYMR 356
QY 391 RKST-----KFGKYPLEVLIYAATVAVIAFPNPTRLNTSELI--KELFTDCGLESS 442
Db 357 KQKTNRFELMKRLLFPALVTLISTLT---FPPGFGQFMAQOLSKQETLV----- 404
QY 443 SLCDYRNDMNAKSIYDDIPDRPAGIGVSAIMO-----LCIALIFKIIIMVTFEGI 493
Db 405 TLFPNRTVNRQG-LVEDL-----GAPSTSQAMSPPRANVFLTVIFILMKRMSALATTI 458
QY 494 KVPGLFIPMAIGAIAGRIAGIAGEOLAYY---HHDMWIFKMECEVGADCIIPGLYA 548
Db 459 PVPCCAFMPFVYVIGAFGRLVG---ESMAAMPDGIHTDSSYR-----IYPGGYA 506
QY 549 MVGAACAGGVTATVSVLVIVFELTGLLEYIVPLMAAVMTSKWGDAPFREGIYEAIIR 608
Db 507 VVGAALAGAVTH-TVSTAIVIVFELTGLIAHLPMIAVILIANAVASGL-QPSLYDSTIR 564
QY 609 LINGYFLDAKEEFHTTLAADVMPRRNDPPLAVLTQDNMTVDIENNINETSNGCFVI 668
Db 565 IKKLPYELPGLMGHROQYRVAVEDIMVDPVHAL---SCIFRDLRLAHLRTKGMALV 621
QY 669 MSKSQRLVGFALRRDLTIA-----IESARRKQEGIVSSRVCAQHPPLSPAESP--- 719
Db 622 ESPESMILIG-SIERSQVVALIGAOLSPARRRH---MOKIRKQOMPSPDQESPSSE 676
QY 720 -----RPLK-----LRSI--- 727
Db 677 TSIRPQVNTEDSGPPGAGHGTMRPLKRGPSNAISLQEGTGMESAGIALRSLFCG 736
QY 728 ----- 727
Db 737 SPPLESTSELEKSSQCKRLKRVRLSLASDSECKMSPEBELLMEEQQLDERVNEFD 796
QY 728 --LMSPTVTDHTPMEIIVDIFRKLGLRQCLVTHNGRLGIIITTKDI 773
Db 797 CKIDPAPFOVERTSIHKTHTFSLGLVDHAYVTSIGRLIGIVTLKEL 844

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; ZIP: 45202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863.102
; FILING DATE: 23-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Zurcher, J. A.
; REGISTRATION NUMBER: 42,251
; REFERENCE/DOCKET NUMBER: 10738-12
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (513) 977-8377
; TELEFAX: (513) 977-8141
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 898 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Rabbit Gastric C1C-2
; US-08-863-102-1
;
; Query Match. 15.5%; Score 646; DB 3; Length 898;
; Best Local Similarity 27.0%; Pred. No. 4.8e-60;
; Matches 220; Conservative 113; Mismatches 267; Indels 214; Gaps 30;
;
QY 102 WLVTLTGLASGALAGLIDIAADMTDLKEGICLSALMYNHQCCWGSNETTFEEDKCP 161
Db 94 WIFLVLLGL-----LMALV-----SWAMDYAIACVLOA-----Q 122
QY 162 QMKTWAEILIGQAEPPG-SYIMNYIMYIFMALSFAPLAVSLVKVAPYACSGIPEIKTI 220
Db 123 QM-----MSRGLNINILLOIYAWTYIPYVLTTSAGTQIILAPAVSGIPEIKTI 173
QY 221 LSGFIIRGLGKWTLMITITLVLAVASGLSGKEGPIVHVACCGNI---FSYLFPKYS 277
Db 174 LRGVLLKREYLLKTFVAVIGLTCALGSGMPLGKEGPFVHIASMCALLSKFLSLFGGIY 236
QY 278 TNEAKKREVLASAAGSVAFAPAGIGVLSLEEVSYFPPLKTRSPFALVAAPLVR 337
Db 224 ENESNTEMLAACAAGVCGCCFAPIGVLSIEVTSFFAVRNWRKFPAATESAFIFR 293
QY 338 SI---NPGNSRLVLFVEYEHY--PWYLFELFPFLLGVFGGLGAPFIRAN--IACR 390
Db 294 VLAVNRRDEETITLFTKRFRLDPFDLOELPAFAVIGIASGFGALFVYLNKIVQYMR 353
QY 391 RKST-----KFGKYPLEVLIYAATVAVIAFPNPTRLNTSELI--KELFTDCGLESS 442
Db 354 KQKTNRFELMKRLLFPALVTLISTLT---FPPGFGQFMAQOLSKQETLV----- 401
QY 443 SLCDYRNDMNAKSIYDDIPDRPAGIGVSAIMO-----LCIALIFKIIIMVTFGIKYS 497
Db 402 TLFPNRTVNRQG-LVEEL-EPPSTSQAMSPPRANVFLTVIFILMKRMSALATTIPVC 459
QY 498 GLFIPMAIGAIAGRIAGIAGEOLAYY---HHDMWIFKMECEVGADCIIPGLYAMGA 552
Db 460 GAFMPFVEYVIGAFGRLVG---ESMAAMPDGIHTDSSYR-----IYPGYAVVGA 507
QY 553 AACGAGVTATVSVLVIVFELTGLLEYIVPLMAAVMTSKWGDAPFREGIYEAIIRLNGY 612
Db 508 AALAGAVTH-TVSTAIVIVFELTGLIAHLPMIAVILIANAVASGL-QPSLYDSTIRIKL 565
QY 613 PFLDAKEEFHTTLAADVMPRRNDPPLAVLTQDNMTVDIENNINETSNGCFVIYSKE 672
Db 566 PYLPELIGRHOQYRVAVEDIMVDPVHAL---SCIFRDLRLAHLRTKGTTLALVESPE 622
QY 673 SORLVGFALRRDLTIAESA-----RKKQEGIVG-----SSRVCF--- 707
Db 623 SMILIG-SIERTQVALLAOLSPARRROSKOKRRVAVHTSPSCQESPSPETISVCFQVK 681

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RESULT 2
US-08-863-102-1
; Sequence 1, Application US/08863102
; Patent No. 6015828
; GENERAL INFORMATION:
; APPLICANT: Cuppoletti, John
; TITLE OF INVENTION: Chemical Modification of
; TITLE OF INVENTION: Chloride Channels as a Treatment for Cystic
; TITLE OF INVENTION: Fibrosis and Other Diseases
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jackie A. Zurcher,
; ADDRESS: Dismore & Shonk LLP
; STREET: 255 E. Fifth Street,
; CITY: Cincinnati
; STATE: Ohio
; COUNTRY: USA

```

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OY 708 -----AC-----HTPELPA-----ESP-----RPLKRSI----- 727
Db 682 AEDAGEEPKPLKRPALKRCCSNVNLGESPFGHVESAGIALNSLFCGSPPEPNAASEKS 741
OY 728 ----- 739
Db 742 ESSEKRSKRVARISLSDSDLEGEMSPPEILMEWEOQLDEPVNFSDCKIDPAFOLVERT 801
OY 740 PMEIVVDIFRKGLRQCLVTHNGRLGITTCKDI 773
Db 802 SLKHTHTLFSLLGVDHAYVTSIGRLIGVITKEL 835

RESULT 3
US-08-863-102-4
Sequence 4, Application US/08863102
Patent No. 6015828
GENERAL INFORMATION:
APPLICANT: Cuppolletti, John
TITLE OF INVENTION: Chemical Modification of
TITLE OF INVENTION: Chloride Channels as a Treatment for Cystic
TITLE OF INVENTION: Fibrosis and Other Diseases
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Jackie A. Zurcher,
ADDRESS: 255 E. Fifth Street,
STREET: 1900 Chemed Center
CITY: Cincinnati
STATE: Ohio
COUNTRY: USA
ZIP: 45202
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,102
FILING DATE: 23-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Zurcher, J. A.
REGISTRATION NUMBER: 42,251
REFERENCE/DOCKET NUMBER: 10738-12
TELECOMMUNICATION INFORMATION:
TELEPHONE: (513) 977-8377
TELEFAX: (513) 977-8141
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 898 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Human Gastric CIC-2
US-08-863-102-4

Query Match 15.5%; Score 646; DB 3; Length 898;
Best Local Similarity 27.0%; Pred. No. 4.8e-60;
Matches 220; Conservative 113; Mismatches 267; Indels 214; Gaps 30.

OY 102 WLVLVLTSLAGSAGLALIDIAADWWTDLKEGICLSALWYNHRCQCGSNETWFEERDKCP 161
Db 94 WFLVLVLGL-----LMALY-----SWAMDVAIAACLOA-----Q 122
OY 162 QMKTAEDLIGQABSG--SYLNNYIMYTFWALSFAPLAVSLVKVPAPYACGSGIPEIKTI 220
Db 123 QW-----MSRGLNNTNLLQYLAWWTYPVVLITFSAGFTQILAPQAVGSGIPEMKTI 173
OY 221 LSGFIRIGYLGKWTLMITITVLAVASGLSGKRCGPLVHVACCCGNT---FSYLFPKRS 277
Db 174 LRGVVLKEYLTLTKTFVAVVIGLTCLAGSGMPLKRGSPVHVIAISMCAALSLKFLSLFGIY 233

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[illegible]

[illegible]

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      RESULT 5
      US-08-737-109-11
      ; Sequence 11, Application US/08737109
      ; Patent No. 645688
      ; GENERAL INFORMATION:
      ; APPLICANT: SLABAS, Antoni Ryszard
      ; APPLICANT: ELBOROUGH, Kieran Michael
      ; APPLICANT: BRICHT, Simon William Jonathan
      ; APPLICANT: FENTIM, Philip Anthony
      ; TITLE OF INVENTION: Plant Gene Specifying Acetyl Coenzyme A
      ; TITLE OF INVENTION: Carboxylase and Transformed Plants Containing Same
      ; NUMBER OF SEQUENCES: 32
      ; CORRESPONDENCE ADDRESS:
      ; ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.
      ; STREET: 1100 New York Avenue, N.W.
      ; CITY: Washington
      ; STATE: D.C.
      ; COUNTRY: U.S.A.
      ; COMPUTER READABLE FORM:
      ; MEDIUM TYPE: 3.5 inch diskette
      ; COMPUTER: IBM PC compatible
      ; OPERATING SYSTEM: PC-DOS/MS-DOS
      ; SOFTWARE: MS word
      ; CURRENT APPLICATION DATA:
      ; APPLICATION NUMBER: US/08/737,109
      ; FILING DATE: 21-OCT-1996
      ; CLASSIFICATION: 800
      ; PRIOR APPLICATION DATA:
      ; APPLICATION NUMBER: PCT/GB94/00846
      ; FILING DATE: 02-MAY-1994
      ; INFORMATION FOR SEQ ID NO: 11:
      ; SEQUENCE CHARACTERISTICS:
      ; LENGTH: 765 amino acids
      ; TYPE: amino acid
      ; STRANDEDNESS: single
      ; TOPOLOGY: linear
      ; MOLECULE TYPE: protein
      ; HYPOTHEetical: NO
      ; ANTI-SENSE: NO
      ; FRAGMENT TYPE: internal
      ; ORIGINAL SOURCE:
      ; ORGANISM: Brassica napus
      ; US-08-737-109-11
      Query Match          2.7%   Score 114.5; DB 4; Length 765;
      Best Local Similarity 20.6%; Pred. NO. 0.0065;
      Matches 102; Conservative 54; Mismatches 168; Indels 171; Gaps
      Oy    319  IKTWRSPFALVIAAFVRS--INFGNSRLVLFYVEYHTPWYLFLRPF---ILL----- 369
      Db     81  LKSLTSPISLSEGTSMLMPVSRPLNBEFG--NWAMSLWNSTP-----EPPMGCKLLIVAND 132

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[illegible]

RESULT 6
 US-08-140-729A-5
 Sequence 5, Application US/08140729A
 Patent No. 5658782
 GENERAL INFORMATION:
 APPLICANT: Amara, Susan G
 APPLICANT: Arriza, Jeffrey L
 TITLE OF INVENTION: Amino Acid Transporters and Uses
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Allegetti & Witcoff, Ltd.
 STREET: 10 South Wacker Drive, Suite 3000
 City: Chicago
 STATE: IL
 COUNTRY: USA
 ZIP: 60606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/140.729A
 FILING DATE: 20 OCT 1993
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: No. 5658782nam, Kevin E
 REGISTRATION NUMBER: 35,303
 REFERENCE/DOCKET NUMBER: 93,509
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312-715-1000
 TELEFAX: 312-715-1234
 TELEX: 910-221-5317
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 542 amino acids
 type: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-140-729A-5

Query Match 2.7%; Score 114; DB 1; Length 542;

Best Local Similarity 19.5%; Pred. No. 0.0041;

Matches 131; Conservative 92; Mismatches 214; Indels 236; Gaps 33;

QY 69 ECKCDREHRRIRNSKKRESAMENTSLEYDAM--SGMLVVTITGLASGALGLIDIAADW 125
 DB 16 ERQOQGVRRKRLAKKK--VQNTKEVVSYLEFRNAFVLLTVAIVGTTLG-----65
 QY 126 MDLKEGICLSALWYHQCWCNSNETTEERDKCPQWKTMAELLIGQEGPSYIMNY 185
 DB 66 -----FTLR---PYRMSYRE--VKYSPGPELLMRML 92
 QY 186 MYIFMALSEAFVAVLSV---KVFAPYACGSGIPEIKTILSGFIINGYLGKWTLMIKTIT 241
 DB 93 QMLVPLIISLVTGMAALDSKASGKEGCAVYVYMTTITIAVY-----GII 140
 QY 242 LVLAVASGL---SLGKEGPLVHVACCG-----NIFSYLEPKYSTNEAK---283
 DB 141 IVIIRHGGKTEKMHREKIVYVTAADAFDLIRMLNPNLVEACFKQKTKYERKSEK 200
 QY 284 -----REVLSASAAGVSAFG-----APIGG-----VLSLEVSITYFPL 319
 DB 201 VPIQANETLVGAIVNNVSEAMETLTRITEELVFPVGSVGNALGLVFSM---CFGFYI 257
 QY 320 KTL-----WRSEFALVAFAVLRISNPFNSRLVLFVEYEHTPWVLFELFPEIL---L 369
 DB 258 GNNKEGQALREFFDLNEAIM-----RLVAVIMMYAVGVLFLIAGKIVEMEDM 307
 QY 370 GVFGGLMGAFIRANIAMCRKRKSTKFGKYPVLEVIIVAVIAVIAFPNPY---TRLN-- 424
 DB 308 GVIYGG-----OLAMYTV-TVIVGLIHAVIYVLPILYELVTRKPNW 346
 QY 425 --TSELIKELFTDCGPLESSSL-----CDYRN---DMNASKYVDIDIPRPAIGY--- 470
 DB 347 VTIGGLQLALITLALGTSSSATLPTFKCLEBNNGVDKRVTRV---LPVGATITMDG 401
 QY 471 SAIMQCLALIFRIIMTVTFPGIKVPSGLFIPSMAGATAGRIAGVIAEQVAYHHDMFI 530
 DB 402 TAYLE-ALAAIF--IAOVNMFELNF-----GQIITISITATA-----435
 QY 531 FKEWCEVGADCTTPGLIYAMVGAACLGVTGMTVSLVIVFELTGLGLEYIVPLMAAV--- 587
 DB 436 -----ASIGAA-----GIPOAGLVMTVIVLTVSVGLPTDDITLIIAVDMF 474
 QY 588 -----MTSKWGDARCGEITYEAHIRLNGYVPLDAKEETHTTTLADVVRPRNDPPLAV 642
 DB 475 LDRLETTIVLDSIG-AGIVE---HLSRHELKNRDVENMGNSVIEENEMK-----KPYOL 525
 QY 643 LQODNMTVDDIEN 655
 DB 526 IADNETEKPIIDS 538

RESULT 7

US-08-546-666-5

Sequence 5, Application US/08546666

Patent No. 5776774

GENERAL INFORMATION:

APPLICANT: Amara, Susan G

APPLICANT: Ariza, Jeffrey L

TITLE OF INVENTION: Amino Acid Transporters and Uses

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Allegetti & Witcoff, Ltd.

STREET: 10 South Wacker Drive, Suite 3000

CITY: Chicago

STATE: IL

COUNTRY: USA

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/546,666
 FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/140,729

FILING DATE: 20 OCT 1993

ATTORNEY/AGENT INFORMATION:

NAME: No. 5776774nan, Kevin E

REGISTRATION NUMBER: 35,303

REFERENCE/DOCKET NUMBER: 93,509

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-715-1000

TELEFAX: 312-715-1234

TELEX: 910-221-5317

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 542 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-546-666-5

Query Match 2.7%; Score 114; DB 1; Length 542;

Best Local Similarity 19.5%; Pred. No. 0.0041;

Matches 131; Conservative 92; Mismatches 214; Indels 236; Gaps 33;

QY 69 ECKCDREHRRIRNSKKRESAMENTSLEYDAM--SGMLVVTITGLASGALGLIDIAADW 125
 DB 16 ERQOQGVRRKRLAKKK--VQNTKEVVSYLEFRNAFVLLTVAIVGTTLG-----65
 QY 126 MDLKEGICLSALWYHQCWCNSNETTEERDKCPQWKTMAELLIGQEGPSYIMNY 185
 DB 66 -----FTLR---PYRMSYRE--VKYSPGPELLMRML 92
 QY 186 MYIFMALSEAFVAVLSV---KVFAPYACGSGIPEIKTILSGFIINGYLGKWTLMIKTIT 241
 DB 93 QMLVPLIISLVTGMAALDSKASGKEGCAVYVYMTTITIAVY-----GII 140
 QY 242 LVLAVASGL---SLGKEGPLVHVACCG-----NIFSYLEPKYSTNEAK---283
 DB 141 IVIIRHGGKTEKMHREKIVYVTAADAFDLIRMLNPNLVEACFKQKTKYERKSEK 200
 QY 284 -----REVLSASAAGVSAFG-----APIGG-----VLSLEVSITYFPL 319
 DB 201 VPIQANETLVGAIVNNVSEAMETLTRITEELVFPVGSVGNALGLVFSM---CFGFYI 257
 QY 320 KTL-----WRSEFALVAFAVLRISNPFNSRLVLFVEYEHTPWVLFELFPEIL---L 369
 DB 258 GNNKEGQALREFFDLNEAIM-----RLVAVIMMYAVGVLFLIAGKIVEMEDM 307
 QY 370 GVFGGLMGAFIRANIAMCRKRKSTKFGKYPVLEVIIVAVIAVIAFPNPY---TRLN-- 424
 DB 308 GVIYGG-----OLAMYTV-TVIVGLIHAVIYVLPILYELVTRKPNW 346
 QY 425 --TSELIKELFTDCGPLESSSL-----CDYRN---DMNASKYVDIDIPRPAIGY--- 470
 DB 347 VTIGGLQLALITLALGTSSSATLPTFKCLEBNNGVDKRVTRV---LPVGATITMDG 401
 QY 471 SAIMQCLALIFRIIMTVTFPGIKVPSGLFIPSMAGATAGRIAGVIAEQVAYHHDMFI 530
 DB 402 TAYLE-ALAAIF--IAOVNMFELNF-----GQIITISITATA-----435
 QY 531 FKEWCEVGADCTTPGLIYAMVGAACLGVTGMTVSLVIVFELTGLGLEYIVPLMAAV--- 587
 DB 436 -----ASIGAA-----GIPOAGLVMTVIVLTVSVGLPTDDITLIIAVDMF 474
 QY 588 -----MTSKWGDARCGEITYEAHIRLNGYVPLDAKEETHTTTLADVVRPRNDPPLAV 642
 DB 475 LDRLETTIVLDSIG-AGIVE---HLSRHELKNRDVENMGNSVIEENEMK-----KPYOL 525

Matches 131; Conservative 92; Mismatches 214; Indels 236; Gaps 33;

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69  EKCKDRERHRRIRSKKESAMWTKSLYDAW---SGMLVLTGLGASGALGLIDIAADW 125
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
16  ERQOGVRRKRTLLAKK--VQNTKEVYKSYLFRRNAFVLTVTAIVGTTLG----- 65
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
126 MDDLKRGICLSALWYHNEOCWGSNETTPEERDKCPQMKWMAELLIGQAECPGSIYINNY 185
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
66  -----FTLR---PYRMSYRE--VKYFSFPGELLMRL 92
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
186 MYFMALSPFAFLAVSLV---KYFAPYACGSGIPEIKTILSGFIINGLYCKWLMKITT 241
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
93  QMLVPLILISSLVYTGMAALDSKASGKWCAGVYVMTTITIAVI-----GII 140
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
242 LVLAVASGL---SLKKEGPLVHVACCG-----NIFSYLEPKYSTNEAK--- 283
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
141 IVIIHPGCKTKENMHREGIVRYTAADAFDLIRNMLNPLVEACFKQKTIYERKSEK 200
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
284 ---REVLSAASAGVSAFG-----APIGG-----VLSLEEVSYFFPL 319
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
201 VPQANETLVGAVINNVSEAMETLRTITELVPPGVSNGVNLGLVFSM---CFGVI 257
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
320 KTL-----WRSFALVAFAVLRSINPGNSRLVLFYVEYHHPWYLFELFPIL---L 369
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
258 GNNKEGQALREFPDSLINEAIM-----RLVAVIMVYAPVGLIFLAGKIVEMEDM 307
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
370 GVFGGLMGAFIRANIAMCRRRKSTFKGYPLVEVITVAITVAIPNPY---TRLN-- 424
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
308 GVYIG-----QLAMTV--TVIVGLIHAVIYVPLLYFLVTRKNPW 346
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
425 --TSELKELETDGPLESSSL-----CDYRN--DMNASKIVDDIPDRPAGIGV--- 470
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
347 VFIQGLQALITALTGTSSSATLPITFKCLEENNVDKRVTRV-----LPVQATINMOG 401
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
471 SAIMQCLALIEKIIMTVFFPGIKVPSGLFIPSMALGAIAGRIVGAIVEDLAYHHDMFI 530
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
402 TAYLE-ALAIIF--IAOVNNEFELNF-----GQIITISITATA----- 435
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
531 FKMECEVADCTPPGLYAMWGAACLGVTBMTVSLVIVFELTGLGLEYIVPLMAAV--- 587
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
436 -----ASIGAA-----GIQAGLVIMVIVLTVSGVLPDITDITLIAVDWF 474
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
588 -----MTSKWVGDAFGREGIYEAHIRLNGYPLLDAAEEFTHTTLADVMPRRNDPLAV 642
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
475 LDRLRTTVNLGDSLQ-AGIVE---HLSRHELKNRDVEMGNSVIEENEMK-----KPYOL 525
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
643 LQODNMIVDDIEN 655
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
526 IAODNETEKRPIDS 538
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

RESULT 13
US-09-198-650-5
Sequence 5, Application US/09198650
Patent No. 6020479
GENERAL INFORMATION:
APPLICANT: Amara, Susan G
APPLICANT: Ariza, Jeffrey L
TITLE OF INVENTION: Amino Acid Transporters and Uses
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Allegretti & Witcoff, Ltd.
STREET: 10 South Wacker Drive, Suite 3000
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/198,650
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/140,729
FILING DATE: 20 OCT 1993
ATTORNEY/AGENT INFORMATION:
NAME: No. 6020479nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 93,509
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 542 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-198-650-5

Query Match 2.7%; Score 114; DB 3; Length 542;
Best Local Similarity 19.5%; Pred. No. 0.0041;
Matches 131; Conservative 92; Mismatches 214; Indels 236; Gaps 33;

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69  EKCKDRERHRRIRSKKESAMWTKSLYDAW---SGMLVLTGLGASGALGLIDIAADW 125
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
16  ERQOGVRRKRTLLAKK--VQNTKEVYKSYLFRRNAFVLTVTAIVGTTLG----- 65
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
126 MDDLKRGICLSALWYHNEOCWGSNETTPEERDKCPQMKWMAELLIGQAECPGSIYINNY 185
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
66  -----FTLR---PYRMSYRE--VKYFSFPGELLMRL 92
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
186 MYFMALSPFAFLAVSLV---KYFAPYACGSGIPEIKTILSGFIINGLYCKWLMKITT 241
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
93  QMLVPLILISSLVYTGMAALDSKASGKWCAGVYVMTTITIAVI-----GII 140
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
242 LVLAVASGL---SLKKEGPLVHVACCG-----NIFSYLEPKYSTNEAK--- 283
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
141 IVIIHPGCKTKENMHREGIVRYTAADAFDLIRNMLNPLVEACFKQKTIYERKSEK 200
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
284 ---REVLSAASAGVSAFG-----APIGG-----VLSLEEVSYFFPL 319
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
201 VPQANETLVGAVINNVSEAMETLRTITELVPPGVSNGVNLGLVFSM---CFGVI 257
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
320 KTL-----WRSFALVAFAVLRSINPGNSRLVLFYVEYHHPWYLFELFPIL---L 369
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
258 GNNKEGQALREFPDSLINEAIM-----RLVAVIMVYAPVGLIFLAGKIVEMEDM 307
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
370 GVFGGLMGAFIRANIAMCRRRKSTFKGYPLVEVITVAITVAIPNPY---TRLN-- 424
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
308 GVYIG-----QLAMTV--TVIVGLIHAVIYVPLLYFLVTRKNPW 346
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
425 --TSELKELETDGPLESSSL-----CDYRN--DMNASKIVDDIPDRPAGIGV--- 470
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
347 VFIQGLQALITALTGTSSSATLPITFKCLEENNVDKRVTRV-----LPVQATINMOG 401
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
471 SAIMQCLALIEKIIMTVFFPGIKVPSGLFIPSMALGAIAGRIVGAIVEDLAYHHDMFI 530
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
402 TAYLE-ALAIIF--IAOVNNEFELNF-----GQIITISITATA----- 435
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
531 FKMECEVADCTPPGLYAMWGAACLGVTBMTVSLVIVFELTGLGLEYIVPLMAAV--- 587
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
436 -----ASIGAA-----GIQAGLVIMVIVLTVSGVLPDITDITLIAVDWF 474
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
588 -----MTSKWVGDAFGREGIYEAHIRLNGYPLLDAAEEFTHTTLADVMPRRNDPLAV 642
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
475 LDRLRTTVNLGDSLQ-AGIVE---HLSRHELKNRDVEMGNSVIEENEMK-----KPYOL 525
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
643 LQODNMIVDDIEN 655
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
526 IAODNETEKRPIDS 538
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

RESULT 14

US-09-332-740-4

Sequence 4, Application US/09332740

Patent No. 6060307

GENERAL INFORMATION:

APPLICANT: Amara, Susan G

APPLICANT: Arriza, Jeffrey L

APPLICANT: Fairman, Wendy A

TITLE OF INVENTION: Amino Acid Transporters and Uses

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: Banner & Allegretti, Ltd.

STREET: 10 South Wacker Drive, Suite 3000

CITY: Chicago

STATE: IL

COUNTRY: USA

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentln Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/332,740

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/663,808

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: No. 6060307nan, Kevin E

REGISTRATION NUMBER: 35,303

REFERENCE/DOCKET NUMBER: 93,509-C

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-715-1000

TELEFAX: 312-715-1234

TELEX: 910-221-5317

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 542 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-332-740-4

Query Match 2.7%; Score 114; DB 3; Length 542;
Best Local Similarity 19.5%; Pred. No. 0.0041;
Matches 131; Conservative 92; Mismatches 214; Indels 236; Gaps 33;

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QY 69 ECKDRERHRRHRSKKKSAWEMTKSLYDAN---SGWLIVLTGLASGALGLIDIAADM 125
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 16 ERFOGVAKRLLAKK--VONTKEVVKSYLFRAAFVLTAVTAVTIG----- 65
QY 126 MTDKEGICLSALWYHBOCCWGSNETFEERDKCPQWKTAELLIGQAEPSYIMNYI 185
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 66 -----FTLR---PYRMSYRE--VKFSPFGELMMML 92
QY 186 MYTMAISFAFLAVSLV---KVPAPVAGSGIPEIKTILSGFIIRGLWKTMLKITIT 241
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 93 QMLVPLIISIVTGMALDSKASGKMECGAVVYMTTITIAVVI-----GII 140
QY 242 LVLAVASGL---SLGKSGPLVHVAACCG-----NIFSLFEPKYSTNEAKK--- 283
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 141 IVIIHPEKGKTKENHREGKIVRYTADADLDIRNMLNPLVCECFQFTNEKRSFK 200
QY 284 -----REVLSAASAGYSAFG-----APIG-----VLSLEEVSYRPL 319
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 201 VPIQANETLVAGVINNSEAMETLRTIELVYPGSGVNGVNALGLVFSM---CFGFI 257
QY 320 KTL-----WSPFAALVAVFLVLSINPGNSRLVFVEYHTFWYLFELFPFL---L 369
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
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Db 258 GNMKEGOALREFPDSLNEAIV-----RLVAVIMWYAPVILFLIAGKIVEMEDM 307

QY 370 GYFGGLMGAFIFRANIAICRRKRSKTKPGYLYLEIYIAAITAVIAFNPY---TRLN-- 424

Db 308 GVIGG-----OLAMVTV--TVIVGLLHVAIVLPLFLVYTRKNPW 346

QY 425 -TSELIELFIDCGPLESSSL-----CDYRN---DMNASKIVDDIPDRPAGISGV--- 470

Db 347 VFIGGLLALITALCTSSSSATLPITFKCLEENNVDKRVYRFV-----LPGATINMDG 401

QY 471 SAIWOLCLALIFKIITMYTFEGIKVPSGLFIPSMAGIAGRIYGAIVEQLAYVHHNFI 530

Db 402 TALVE-ALAAIF--IAQVNNFELNF-----GQIITISITATA----- 435

QY 531 FREKEVGADCTTGPLVAMVGAACLGVTBMYVSLVYIVFELTNGLEYIPLMAAV--- 587

Db 436 -----ASIGNA---GIPQGLVTMYIVLTSGLPLPDDITLITAVDMF 474

QY 588 -----MTSKWGDARFREGIYEAHIRLNGYPLDAKEEFTHTTLAADVYRRPRNDPLAV 642

Db 475 LDRLTNTNVLGDSLQ-AGIVE---HLSRHELKNDVEMGNSVIRENMK-----KPYOL 525

QY 643 LTQDMYVDIEN 655

Db 526 IAQDMETERPIDS 538

RESULT 15

US-09-042-913-5

Sequence 5, Application US/09042913

Patent No. 6074828

GENERAL INFORMATION:

APPLICANT: Amara, Susan G

APPLICANT: Arriza, Jeffrey L

TITLE OF INVENTION: Amino Acid Transporters and Uses

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Allegretti & Witcoff, Ltd.

STREET: 10 South Wacker Drive, Suite 3000

CITY: Chicago

STATE: IL

COUNTRY: USA

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentln Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/042,913

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/140,729

FILING DATE: 20 OCT 1993

ATTORNEY/AGENT INFORMATION:

NAME: No. 6074828nan, Kevin E

REGISTRATION NUMBER: 35,303

REFERENCE/DOCKET NUMBER: 93,509

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-715-1000

TELEFAX: 312-715-1234

TELEX: 910-221-5317

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 542 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-042-913-5
Query Match 2.7%; Score 114; DB 3; Length 542;
Best Local Similarity 19.5%; Pred. No. 0.0041;

